

Title (en)

POWDERED TITANIUM ALLOY COMPOSITION AND ARTICLE FORMED THEREFROM

Title (de)

PULVERFÖRMIGE TITANLEGIERUNGSZUSAMMENSETZUNG UND DARAUS GEFORMTER ARTIKEL

Title (fr)

COMPOSITION D'ALLIAGE DE TITANE EN POUDRE ET ARTICLE FORMÉ À PARTIR DE CELLE-CI

Publication

**EP 3276018 A1 20180131 (EN)**

Application

**EP 17182655 A 20170721**

Priority

- US 201615219812 A 20160726
- US 201715458231 A 20170314

Abstract (en)

A titanium alloy melt consists of 7.0 to 9.0 percent by weight vanadium (V), 3.0 to 4.5 percent by weight aluminum (Al), 0.8 to 1.5 percent by weight iron (Fe), at most 0.15 percent by weight oxygen (O), and the balance being titanium (Ti) and a titanium alloy powder, formed from the titanium alloy melt, consists of 7.0 to 9.0 percent by weight vanadium (V), 3.0 to 4.5 percent by weight aluminum (Al), 0.8 to 1.5 percent by weight iron (Fe), at most 0.18 percent by weight oxygen (O), and the balance being titanium (Ti).

IPC 8 full level

**C22C 14/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: BR CN EP US)

**B22F 9/082** (2013.01 - CN); **C22C 14/00** (2013.01 - BR CN EP US); **C22F 1/183** (2013.01 - EP US); **B22F 3/12** (2013.01 - BR); **B22F 3/15** (2013.01 - US); **B22F 3/26** (2013.01 - BR); **B22F 2301/205** (2013.01 - EP US); **Y02P 10/25** (2015.11 - EP)

Citation (search report)

- [A] US 5332545 A 19940726 - LOVE WILLIAM W [US]
- [A] SONG Z Y ET AL: "Precipitation behavior and tensile property of the stress-aged Ti10Mo8V1Fe3.5Al alloy", MATERIALS SCIENCE AND ENGINEERING: A, ELSEVIER, AMSTERDAM, NL, vol. 528, no. 12, 28 January 2011 (2011-01-28), pages 4111 - 4114, XP028165868, ISSN: 0921-5093, [retrieved on 20110205], DOI: 10.1016/J.MSEA.2011.01.110

Cited by

CN111411260A; CN110129801A; US11708630B2; WO2020091915A3

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3276018 A1 20180131**; **EP 3276018 B1 20190904**; BR 102017013706 A2 20180214; BR 102017013706 B1 20221129; CA 2967151 A1 20180126; CA 2967151 C 20220913; CN 107893174 A 20180410; EP 3578674 A1 20191211; EP 3578674 B1 20220302; JP 2018115386 A 20180726; JP 7278704 B2 20230522; US 11136650 B2 20211005; US 2018230577 A1 20180816; US 2022112578 A1 20220414

DOCDB simple family (application)

**EP 17182655 A 20170721**; BR 102017013706 A 20170623; CA 2967151 A 20170511; CN 201710611737 A 20170725; EP 19184138 A 20170721; JP 2017135228 A 20170711; US 201715458231 A 20170314; US 202117411183 A 20210825